## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/35162

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A61K 31/445; C07D 401/00, 211/68  US CL : 514/ 317, 320, 321, 323; 546/197, 206, 236					
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED					
		ev elessification symbols)			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 514/ 317, 320, 321, 323; 546/197, 206, 236					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a		Relevant to claim No.		
х	US 4,877,799 (Drejer et al. ) 31 October 1989, see	entire reference, especially column 10,	1-4		
Y	lines 19-20.		1-4, 7-77		
A	US 6,448,243 (Kitazawa et al.) 10 September 2002,	see entire reference.	1-4, 7-77		
	No. of Pay C	. See nations formilly appear			
	documents are listed in the continuation of Box C.	See patent family annex.  "T" later document published after the international filing date or priority			
	pecial categories of cited documents:	date and not in conflict with the applicate principle or theory underlying the investigation	ation but cited to understand the		
	defining the general state of the art which is not considered to be lar relevance				
"E" carlier ap	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone	ed to involve an inventive step		
"L" document establish ( specified)	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive step combined with one or more other such	when the document is documents, such combination		
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	art		
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed					
•		Date of mailing of the international search report  22 SEP 2005			
29 August 2005 (29.08.2005) Name and mailing address of the ISA/US		Authorized bilieer	#		
Mail Stop PCT, Atm: ISA/US Commissioner for Patents		Celia Chang			
P.O. Box 1450 . Alexandria, Virginia 22313-1450 Telephone No. 571-272-1600					
Facsimile No.	. (703) 305-3230		•		

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## BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-4, and 7-77 in part which are stereoisomeric forms of compounds I-IV, drawn to 4-aryl/heteroaryl/aralky substituted piperidines.

Group II, claim 5 and 7-77 in part, drawn to bis-piperidines.

Group III, claim 6 and 7-77 in part, drawn to piperidine oxides.

Group IV, claims 78-92, drawn to method of modulating multiple receptors and transporters.

Group V, claims 93-107, drawn to method of mammals inflicted with multiple pathological conditions.

The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

PCT Rule 13.1 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept (" requirement of unity of invention").

PCT Rule 13.2 states that the unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Annex B, Part 1(a), indicates that the application should relate to only one invention, of if there is more than one invention, inclusion is permitted if they are so slinked to form a single general inventive concept.

Annex B Part 1(b), indicates that "special technical features" means those technical features that as a whole define a contribution over the prior art.

Annex B Part 1(c), further defines independent and dependent claims. Unity of invention only is concerned in relation to independent claims. Dependent claims are defined as a claim that contains all the features of another claim and is in the same category as the other claim. The category of a claim refers to the classification of claims according to subject matter e.g. product, process, use, apparatus, means, etc.

Annex B Part 1(e), indicates that the permissible combinations of different categories of claims. Part 1(e)I, states that inclusion of an independent claim for a given product, an independent claim for a process specially adapted for the manufacture of the said product, and an independent claim for a use of the said product is permissible.

Annex B, Part 1(f), indicates the "Markush practice" of alternatives in a single claim. Part 1(f)I, indicates the technical relationship and the same or corresponding special technical feature is considered to be met when (A) all alternatives have a common property or activity, and (B) a common structure is present or all alternatives belong to a recognized class of chemical compounds. Further defining (B), Annex B, Part 1(f)(i-iii), the common structure must; a) occupy a large portion of their structure, or b) the common structure constitutes a structurally distinctive portion, or c) where the structures are equivalent and therefore a recognized class of chemical compounds, each member could be substituted for one another with the same intended result. That is, with a common or equivalent structure, there is an expectation relationship and the corresponding special technical feature result from a common (or equivalent) structure that is responsible for the common activity (or property). Part 1(f) iv, indicates that when all alternatives of a

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Markush grouping can be differently classified, it shall no, take alone, be considered justification for finding indicates that  "When dealing with alternatives, if it can be shown that at least one Markush alternative is not novel over tunity of invention shall be reconsidered by the examiner"  In the instant case, at least one Markush alternative is not novel because prior art by US 6,127,366 reference, thus rendered group II not novel, particularly see formula on col. 42 supported by description at c was found that groups I-V lack unity of invention.	the prior art, the question of will form an "X"
Continuation of B. FIELDS SEARCHED Item 3:	
CAS-structure EAST/WESTimage, subclass	
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows:  Please See Continuation Sheet			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-4 and 7-77 in part piperidinyl compounds			
Remark on Protest			
No protest accompanied the payment of additional search fees.  Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)			